



Vapor Tightness Certification Form

	Name of Certifying Facility: (please print or stamp)		<div>Form for cargo tank truck vapor tightness testing:</div> <div>Air regulation for vapor tightness: VA SAPCB Article 4-37, 40 CFR 60.505, 40 CFR 63.425(e) and 40 CFR 63.11092(f).</div> <div><div>EPA Reference Method 27</div><div>MACT R Annual Certification - Allowed Pressure Change</div><div>(tank truck ≥ 2500 gallons)1.0 - inch<input type="checkbox"/></div><div>(tank truck 1500-2499 gallons)1.5 - inch<input type="checkbox"/></div><div>(tank truck 1,499 to 1,000 gallons)2.0 - inch<input type="checkbox"/></div><div>(tank truck less 999 gallons)2.5 - inch<input type="checkbox"/></div></div>										
	Tank truck Certification date_____												
		Tank truck Certification Expiration Date_____											
Tank Truck Owner:				Address:									
Tank Mfg_____		Tank Unit or Fleet #:_____		Total Tank Truck Capacity Gallons _____									
Year of Mfg_____		serial #:_____		Individual Compartment Capacity									
		Type: <input type="checkbox"/> Truck Tank <input type="checkbox"/> Transport		1_____2_____3_____4_____5_____6_____									
Overfill Protection System <input type="checkbox"/> Good <input type="checkbox"/> Faulty <input type="checkbox"/> Repaired				Type Overfill Protection System <input type="checkbox"/> Optic <input type="checkbox"/> Thermister <input type="checkbox"/> Other									
<input type="checkbox"/> Yes <input type="checkbox"/> No		Connect static electrical ground to tank		<input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Stabilization		Testing location:					
<input type="checkbox"/> Yes <input type="checkbox"/> No		Purged lines of liquid		<input type="checkbox"/> Yes <input type="checkbox"/> No		Open & Close each dome cover							
<input type="checkbox"/> Yes <input type="checkbox"/> No		Purged tank compartments of Vapor:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Connect compartments of tank internally							
Check Method 	<input type="checkbox"/> Load of Non-Volatile		<input type="checkbox"/> Yes <input type="checkbox"/> No		Attach test cap to vapor recovery coupling								
	<input type="checkbox"/> Steam cleaned		<input type="checkbox"/> Yes <input type="checkbox"/> No		Connect pressure-vacuum supply & pressure relief valve to shut-off valve								
	<input type="checkbox"/> Purge each compartment with air for 20 minutes		<input type="checkbox"/> Yes <input type="checkbox"/> No		Attach Manometer (or equivalent) to pressure tap								
EPA METHOD 27 Pressure Test													
Increase pressure to a minimum of 18 inches (maximum of 26.6) Water Gauge (Manometer); Indicate starting pressure (Pi) and pressure (Pf) at the end of 5 minutes. Record initial (Ti) and final time (Tf) of test or duration if stop watch is used.													
RUN 1				RUN 2				RUN 3					
Water Gauge Readings (Inches)		Total Inches Water	Start Time (Ti) Finishing Time (Tf)	Water Gauge Readings (Inches)		Total Inches Water	Start Time (Ti) Finishing Time (Tf)	(Inches)		Total Inches Water	Start Time (Ti) Finishing Time (Tf)		
9.00	9.00	18.00	0:00	9.00	9.00	18.00	0:00	9.00	9.00	18.00	0:00		
		Pi=	Ti=			Pi=	Ti=			Pi=	Ti=		
		Pf=	Tf=			Pf=	Tf=			Pf=	Tf=		
		a=	Tf-Ti =			b=	Tf-Ti =			c=	Tf-Ti =		
To obtain a, b, and c take the difference between Pi and Pf respectively. <ul style="list-style-type: none"><li>A third run or fourth run are only necessary if the truck should fail after the preceding run.</li><li>the difference in two consecutive runs (a–b) or (b–c) must less than or equal to 0.5 inch and</li><li>the average of two consecutive runs (a + b)/2 or (b +c)/2 must be within no more than allowed difference from the initial pressure (see table above).</li></ul> $ (a - b)  = \text{Average (a + b)/2}$ $ (b - c)  = \text{Average (b + c)/2}$													
MACT R - 40 CFR 63.425(E) Internal Vapor Valve Test													
After two consecutive pressure runs, with the tank still pressurized to 18 inches water, close all the internal vapor valves, and drop the pressure on the vapor line. Then, reseal the line. Test is the gauge pressure change in the vapor return line. Record initial time (Ti) and Initial pressure (Pi should be zero), then record final time (Tf) and final pressure (Pf). Test is run at least 5 minutes allowing no more than 5 inch pressure increase over that time.													
Water Gauge Readings		Pi = 0-inch	Pf =	Pf - Pi =		Ti =	Tf =	Tf-Ti =					
EPA METHOD 27 Vacuum Test													
Draw vacuum to 6 inches (maximum of10.0) Water gauge (Manometer); Indicate vacuum Vi at the start and Vf at the end of the 5 minute time frame. Record initial (Ti) and final time (Tf) of test or duration if stop watch is used.													
RUN 1				RUN 2				RUN 3					
Water Gauge Readings		Total Inches Water	Start Time (Ti) Finishing Time (Tf)	Water Gauge Readings		Total Inches Water	Start Time (Ti) Finishing Time (Tf)	Water Gauge Readings		Total Inches Water	Start Time (Ti) Finishing Time (Tf)		
3.00	3.00	6.00	0:00	3.00	3.00	6.00	0:00	3.00	3.00	6.00	0:00		
		Vi=	Ti=			Vi=	Ti=			Vi=	Ti=		
		Vf=	Tf=			Vf=	Tf=			Vf=	Tf=		
		a=	Tf-Ti =			b=	Tf-Ti =			c=	Tf-Ti =		
To obtain a, b, and c take the difference between Vi and Vf respectively. <ul style="list-style-type: none"><li>A third run or fourth run are only necessary if the truck should fail after the preceding run.</li><li>the difference in two consecutive runs (a–b) or (b–c) must be less than or equal to 0.5 inch and</li><li>the average if two consecutive runs (a + b)/2 or (b+c)/2 must be no more than allowed difference from the initial pressure (see table above).</li></ul> $ (a - b)  = \text{Average (a + b)/2}$ $ (b - c)  = \text{Average (b + c)/2}$													
Comments, test, and repairs summary:													
Test conducted by:				Approved Tester Signed Name:				Tester approved by DEQ (_____) Region					
Tester certification expires on:				Approved Tester Printed Name:				Tester approval date:					

Attachments: